

IN THE CLAIMS:

Claim 1. (Currently Amended): A microscope for viewing samples in stereoscopically ~~and in~~ or compoundly ~~optical images using in~~ transmitted light brightfield, and reflected light, and/or fluorescence, said microscope comprising:

a stereo objective;

a compound objective;

an objective ~~carrier~~ turret with automatic shift, said objective turret carrying said stereo objective and said compound objective, said objective turret shifting between said stereo objective and said compound objective through use of said automatic shift;

a stereo microscope body that is shiftable about an axis to be placed properly over the stereo objective or the compound objective capable of changing between a dual optical axis and a singular optical axis;

a ~~transmitted~~ light base for providing illumination using both or either of incident or reflected light and/or fluorescence ~~for transmitted light brightfield~~ for both said stereo and compound objectives; and

an automated prism ~~shift~~ mechanism, disposed in an optical path, to create binocular images from ~~a single said singular optical axis compound image created.~~

Claims 2 - 6 (Withdrawn).

Claim 7. (New): An optical microscope system that permits three optical viewing techniques, said system comprising: means for viewing samples in one of three dimensions, two dimensions, and macro with reflected light fluorescence and transmitted light brightfield.

Claim 8. (New): The optical system as defined by claim 7, wherein said means for viewing comprises one stereoscopic and two compound objectives.

Claim 9. (New): The optical system as defined by claim 8, further comprising a transmitted light base for providing illumination for transmitted light brightfield for said stereo and compound objectives.

Claim 10. (New): The optical system as defined by claim 7, further comprising means, disposed in an optical path of the system, for creating binocular images from a single axis compound image created.

Claim 11. (New): The optical system as defined by claim 8, further comprising a stereo microscope body that is shiftable about an axis in a position that is over the stereo objective or the compound objective.

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